

FIG. 1

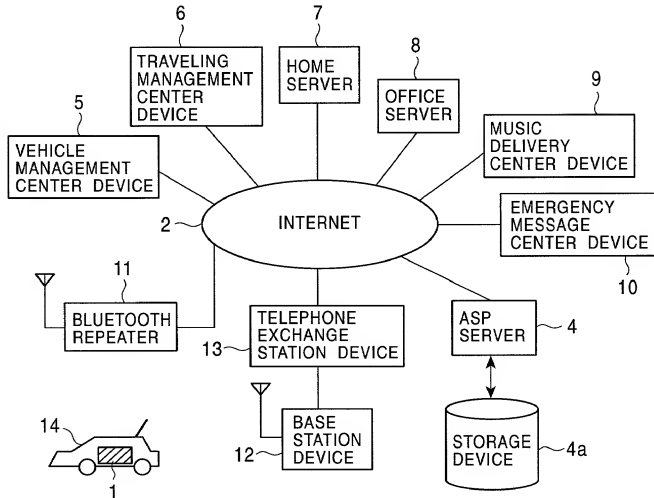
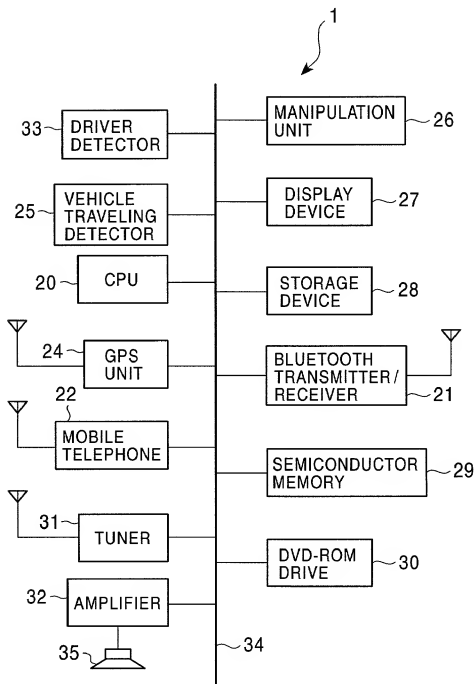
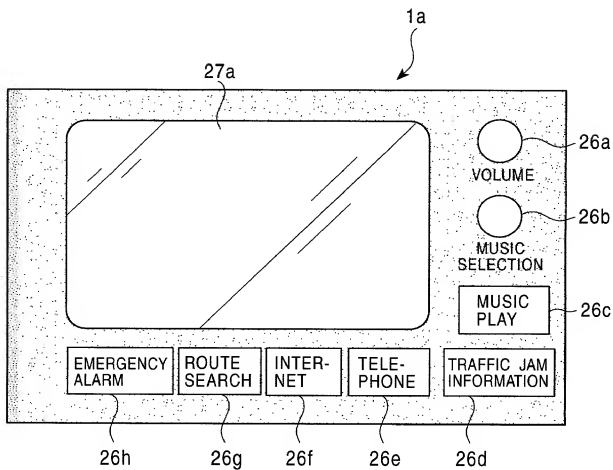


FIG. 2



09961280-123101

FIG. 3



09961280-123101

FIG. 4A

MUSIC PLAY

INTERNET RADIO
MP3 DATA
GROUND WAVE

RETURN

FIG. 4B

TRAFFIC JAM
INFORMATION

RADIO
INTERNET
VICS
PREDICTION FROM PAST DATA
ATIS
SPEEDWAY PUBLIC CORPORATION
GUIDE

RETURN

FIG. 4C

TELEPHONE

CONTACT ADDRESS LIST

RETURN

FIG. 4D

ROUTE SEARCH

DEPARTURE
DESTINATION
DATE AND TIME
LOCATION
CONDITION
PAST RECORD

RETURN

FIG. 4E


EMERGENCY ALARM

ACCESS POINT
EMERGENCY CENTER
AMBULANCE
POLICE
INSURANCE COMPANY
REPAIR SHOP

RETURN

03661360-32701

FIG. 5B



CAR PROFILE DATABASE

USER

PASSWORD

CAR PROFILE
DATABASE

APPLICATION
DATABASE
USER SETTING
UPDATE DATA

FIG. 5C

APPLICATION

TRAVELING MANAGEMENT
EMERGENCY ALARM
MUSIC DELIVERY
ANTI-THEFT
VEHICLE MANAGEMENT
PUBLIC TELEPHONE
ROUTE SEARCH
MAIL

RETURN


FIG. 5D

DATA BASE

VEHICLE DATA
TRAVELING DATA
DRIVER DATA
MUSIC DATA
ADDRESS BOOK
MAP DATA

RETURN

FIG. 5E



USER SETTING

SET ACCESS RIGHT

ADD NEW USER

CHANGE USER DATA

SET ACCESS POINT

RETURN

FIG. 5F

```

UPDATE DATA
UNCONDITIONAL UPDATE
(DATA MOVE)
CONDITIONAL UPDATE
(DESTINATION)
CONDITIONAL UPDATE
(COMMUNICATION CONDITION)
ERASE (FORMAT)
RETURN

```

[illegible]



FIG. 6A

TRAVELING MANAGEMENT

MAP

RETURN

FIG. 6B

EMERGENCY ALARM

SERVICE CENTER
COMMUNICATION
MAIL TRANSMISSION ADDRESS
SENT DATA :
VEHICLE, DRIVER DATA

RETURN

FIG. 6C

MUSIC DELIVERY
INTERNET RADIO

CH	URL
1	*****
2	*****
3	*****
4	*****

PROGRAM RESER-
VATION
DATE AND TIME

URL

RETURN

FIG. 6D

ANTI-THEFT

CABIN TROUBLE SENSOR
TRAVELING REGION
USED TIME
DRIVER
CONTACT ADDRESS
SENT DATA :
VEHICLE, CURRENT POSITION,
ROUTE

RETURN

00001280-1-11001

VEHICLE MANAGEMENT
GAS SUPPLY
DATE AND TIME, OIL SUPPLY,
LOCATION, FUEL EFFICIENCY
OIL EXCHANGE
PARTS
CHECK (MAINTENANCE INFOR-
MATION)

ROUTE SEARCH

DEPARTURE

DESTINATION

DATE AND TIME

LOCATION

CONDITION

PAST INFORMATION

MAP

SEND RESULT TO VEHICLE

RETURN

MAIL	
NAME	ADDRESS
****	*****
****	*****
****	*****
****	*****

RETURN

PUBLIC TELEPHONE	
NAME	TELEPHONE
****	*****
****	*****
****	*****
****	*****

RETURN

FIG. 7B

```

      TRAVELING DATA
CURRENT POSITION
EAST LONGITUDE *****
NORTH LATITUDE  *****

DATE   TIME   LOCA-   SPEED   CONDI-
AND    TIME   TION    TION
**     **     **      **      **
**     **     **      **      **

```

RETURN

FIG. 7D

MUSIC DATA		
NO.	TITLE	DURATION
1	*****	****
2	*****	****
3	*****	****
4	*****	****
5	*****	****
6	*****	****

DOWNLOAD

UPLOAD

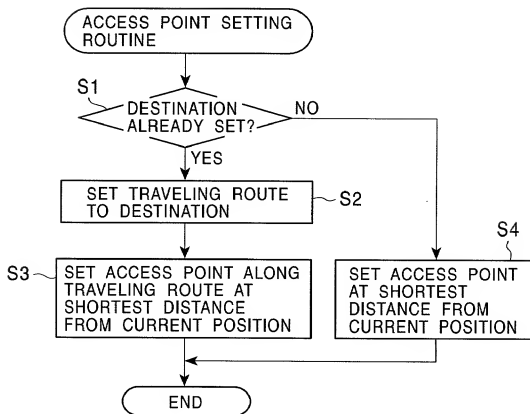
RETURN

FIG. 7F

ADDRESS BOOK		
NAME	TELEPHONE	ADDRESS
**	**	****
**	**	****
**	**	****

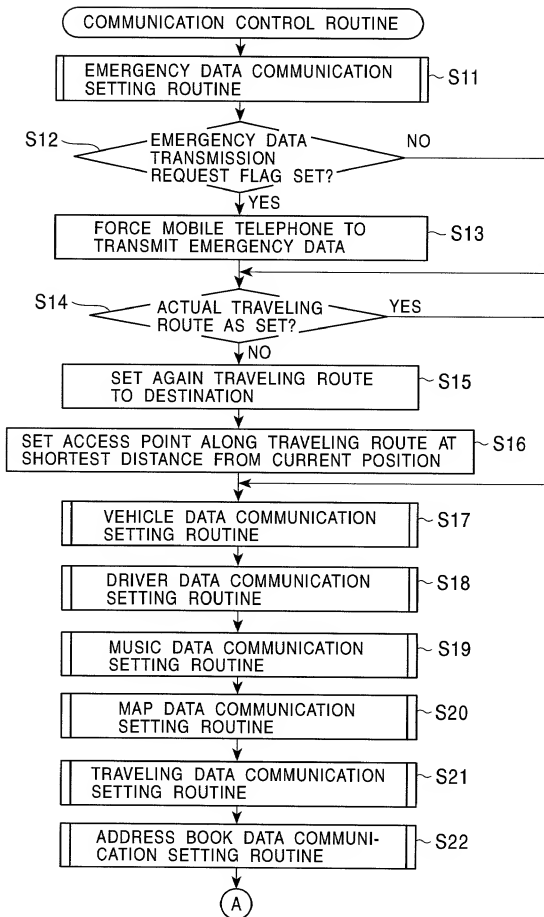
RETURN

FIG. 8



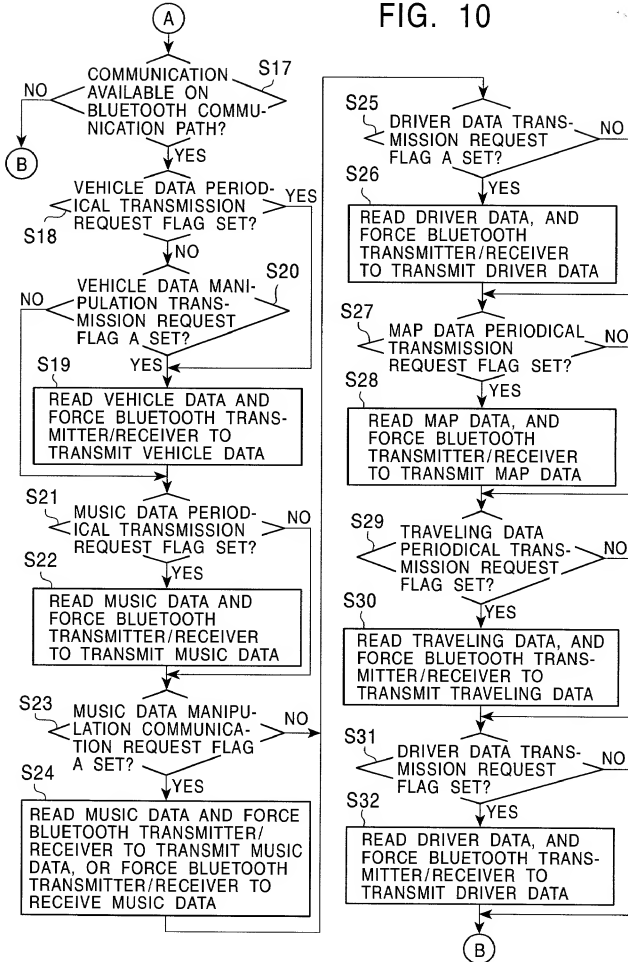
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FIG. 9



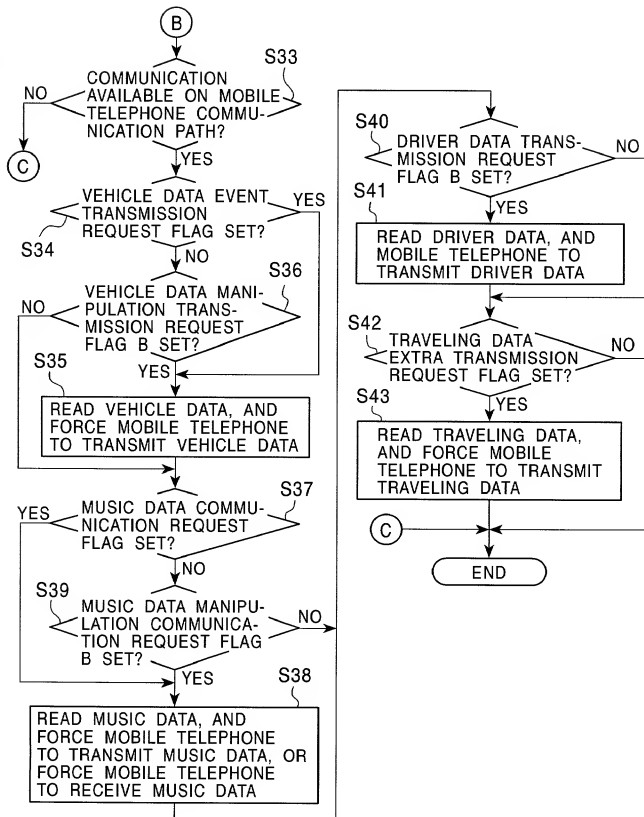
00001280.123101

FIG. 10



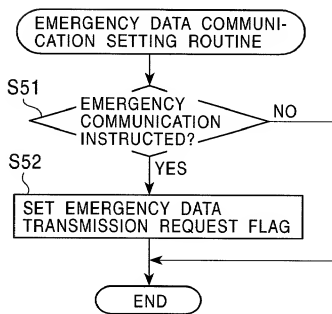
09961280.1:101

FIG. 11



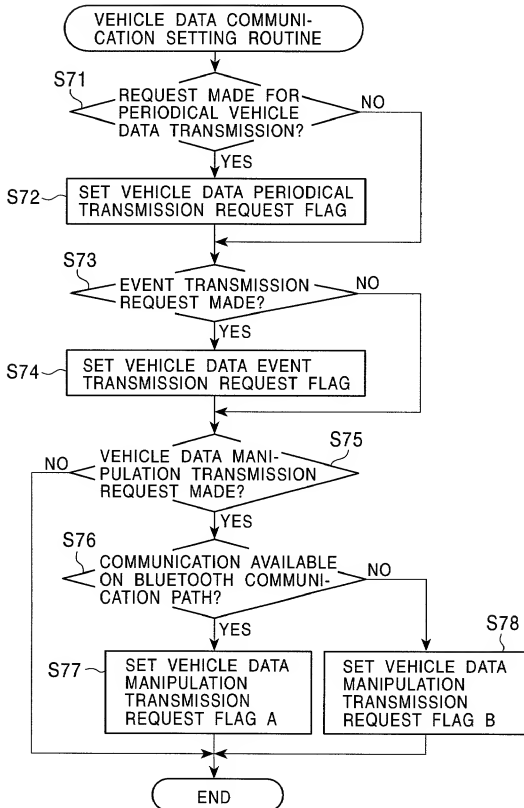
0961280.123101

FIG. 12



0961280.123104

FIG. 13



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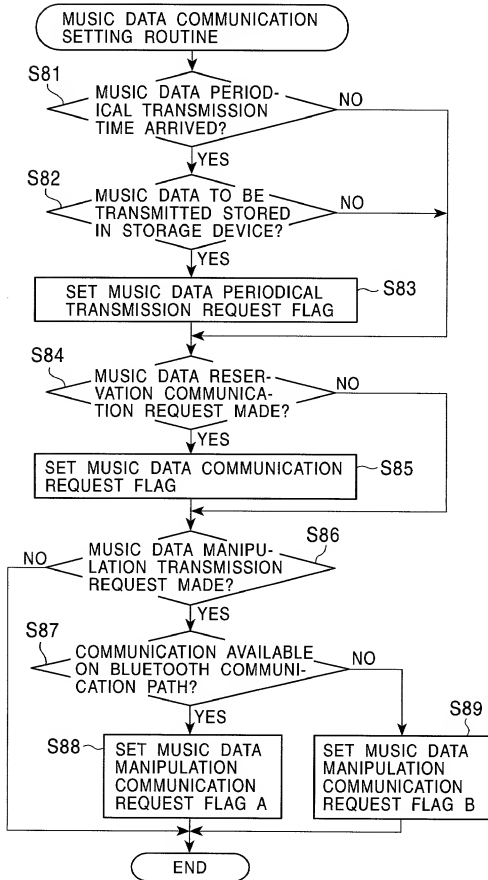
FIG. 14

TYPE	UPDATE CYCLE	PRECEDING UPDATE DATE AND TIME
VEHICLE DATA	ONE WEEK	XXXX : YY : ZZ 12:10
DRIVER DATA	START OF VEHICLE	XXXX : YY : ZZ 11:03
MUSIC DATA	TWICE A DAY	XXXX : YY : ZZ 12:00
MAP DATA	ONCE A MONTH	XXXX : YY : ZZ 09:45
TRAVELING DATA	EVERY 10 MINUTES	XXXX : YY : ZZ 12:50
ADDRESS BOOK DATA	ONCE A DAY	XXXX : YY : ZZ 10:10
EMERGENCY DATA	OCCURRENCE OF EMERGENCY	XXXX : AY : GH 17:30

09/961,280-12340

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FIG. 15



0061280.123101

FIG. 16

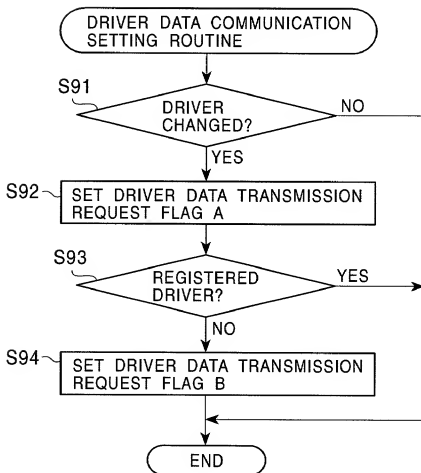
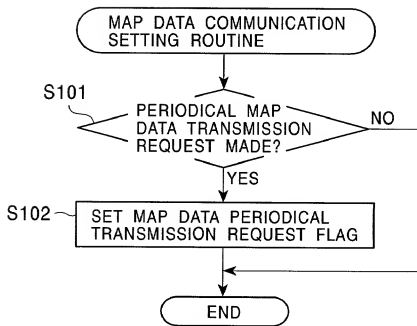
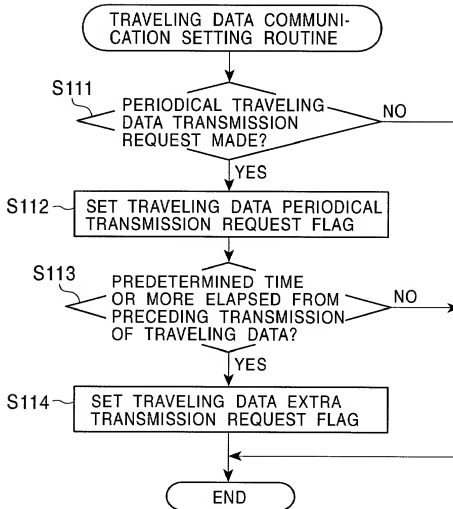


FIG. 17



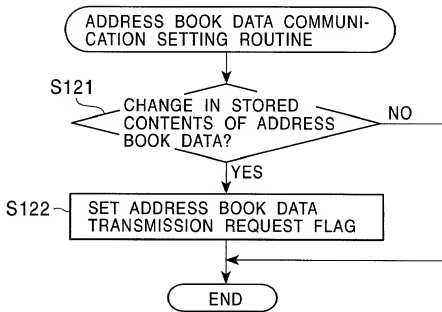
0961280.123101

FIG. 18



0961280.123101

FIG. 19



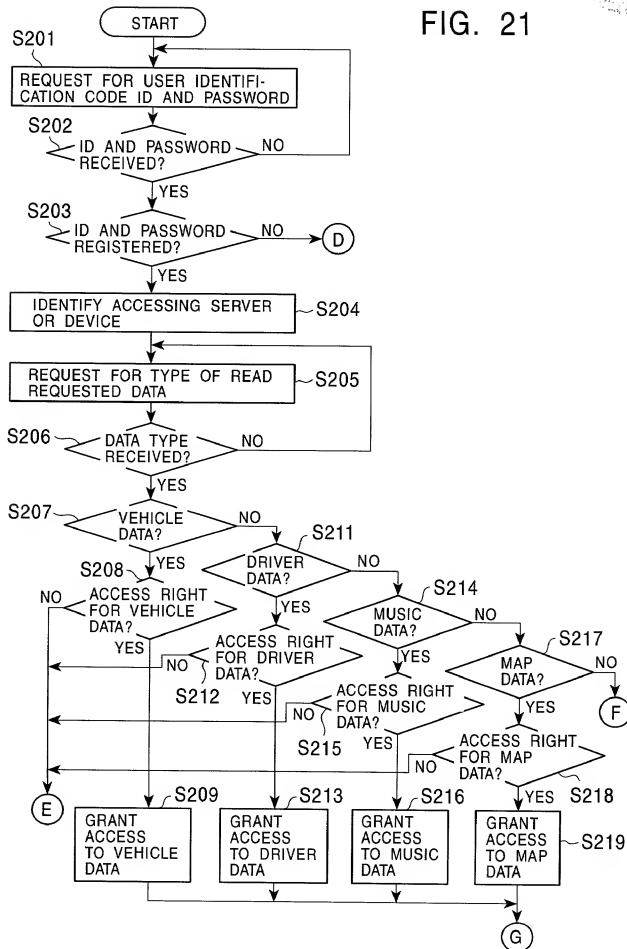
09/25/01 10:00:00

101221*00219660

FIG. 20

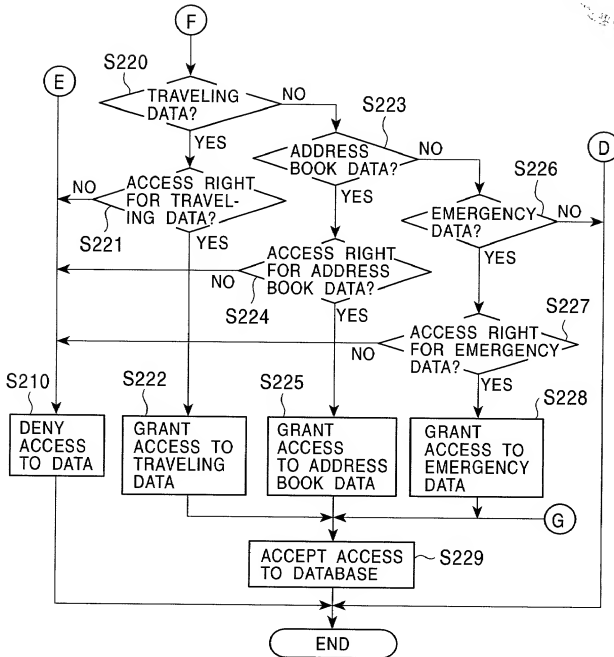
DEVICE OR SERVER TYPE	VEHICLE MANAGEMENT CENTER DEVICE	TRAVELING MANAGEMENT CENTER DEVICE	HOME SERVER	OFFICE SERVER	MUSIC DELIVERY CENTER DEVICE	EMERGENCY MESSAGE CENTER DEVICE
VEHICLE DATA	○	○	○	○	×	○
DRIVER DATA	○	○	○	○	○	○
MUSIC DATA	×	×	○	○	○	×
MAP DATA	×	○	○	○	×	○
TRAVELING DATA	○	○	○	×	×	○
ADDRESS BOOK DATA	×	×	○	○	×	×
EMERGENCY DATA	×	×	○	×	×	○

FIG. 21



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FIG. 22



09961280-123101

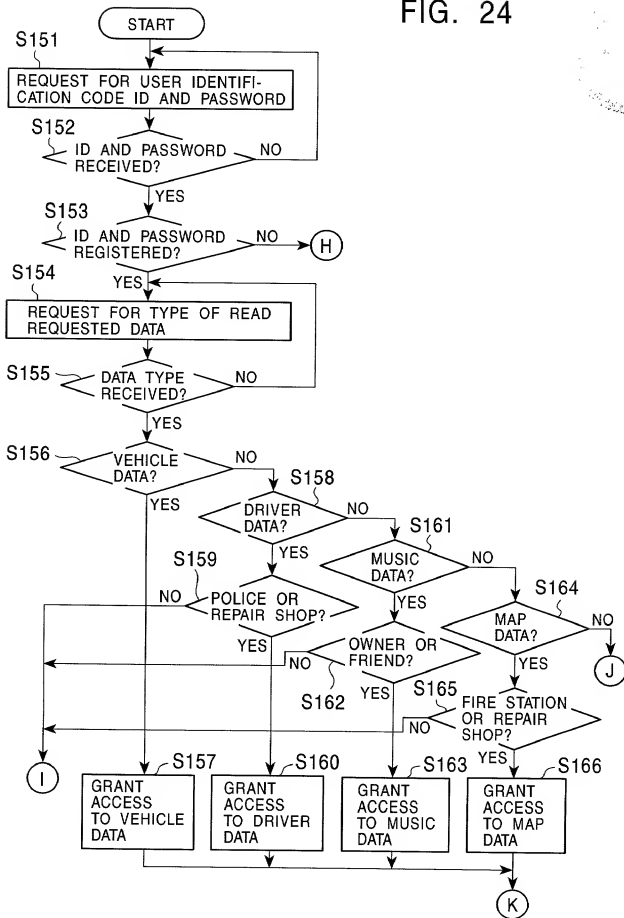
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FIG. 23

USER GROUP TYPE	OWNER	FAMILY MEMBER	FRIEND	SECURITY COMPANY	POLICE	FIRE STATION	REPAIR SHOP
VEHICLE DATA	○	○	○	○	○	○	○
DRIVER DATA	○	○	○	○	×	○	×
MUSIC DATA	○	×	○	×	×	×	×
MAP DATA	○	○	○	○	○	×	×
TRAVELING DATA	○	○	×	×	×	×	○
ADDRESS BOOK DATA	○	×	×	×	×	×	×

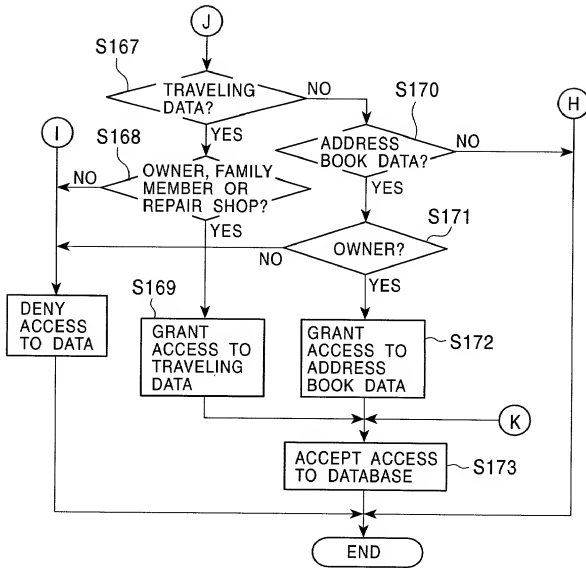
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FIG. 24



09/05/2001 12:31:01

FIG. 25



0961280-123101